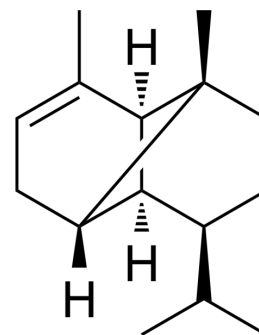


## $\alpha$ -Copaene

Cat. No.:	HY-122485	
CAS No.:	3856-25-5	
Molecular Formula:	C <sub>15</sub> H <sub>24</sub>	
Molecular Weight:	204.35	
Target:	Others	
Pathway:	Others	
Storage:	Pure form	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (489.36 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.8936 mL	24.4678 mL	48.9356 mL
	5 mM		0.9787 mL	4.8936 mL	9.7871 mL
	10 mM		0.4894 mL	2.4468 mL	4.8936 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility:  $\geq$  2.5 mg/mL (12.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE- $\beta$ -CD in saline)  
Solubility:  $\geq$  2.5 mg/mL (12.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility:  $\geq$  2.5 mg/mL (12.23 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

$\alpha$ -Copaene, a sesquiterpene hydrocarbon, is a fruit volatile.  $\alpha$ -Copaene can be used as an oviposition promoter of *Bactrocera oleae*<sup>[1]</sup>.

### REFERENCES

- [1]. Alfonso I, et, al. Role of  $\alpha$ -copaene in the susceptibility of olive fruits to *Bactrocera oleae* (Rossi). J Agric Food Chem. 2014 Dec 10;62(49):11976-9.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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